

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P37597P0-567	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/JP2005/005603	International filing date (day/month/year) 18/03/2005	(Earliest) Priority Date (day/month/year) 26/03/2004
Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 3

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2005/005603

A. CLASSIFICATION OF SUBJECT MATTER
H01L33/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 2004/047151 A1 (BOGNER GEORG ET AL) 11 March 2004 (2004-03-11) paragraph '0018! - paragraph '0049!; figures 1-6	1-14, 18-27 15-17
X A	US 2003/141510 A1 (BRUNNER HERBERT ET AL) 31 July 2003 (2003-07-31) paragraph '0034! - paragraph '0044!; figures 1-4	1, 18, 23 2-17, 19-22, 24-27
X Y A	DE 199 45 919 A1 (ROHM CO. LTD., KYOTO) 30 March 2000 (2000-03-30) column 3, line 13 - column 4, line 7; figures 2-4	1 15-17 2-14, 18-27
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

1 February 2006

Date of mailing of the international search report

21/02/2006

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International Application No
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Form PCT/ISA/210 (continuation of second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2005/005603

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2004047151 A1	11-03-2004	CN 1471734 A WO 0217405 A1 DE 10041328 A1 EP 1312124 A1 JP 2004507114 T TW 501276 B	28-01-2004 28-02-2002 14-03-2002 21-05-2003 04-03-2004 01-09-2002
US 2003141510 A1	31-07-2003	CN 1426604 A WO 0182385 A1 DE 10020465 A1 EP 1277242 A1 JP 2003532299 T TW 533602 B	25-06-2003 01-11-2001 08-11-2001 22-01-2003 28-10-2003 21-05-2003
DE 19945919 A1	30-03-2000	JP 2000101149 A	07-04-2000
EP 1087447 A	28-03-2001	WO 0055926 A1 JP 2000269551 A US 6495861 B1	21-09-2000 29-09-2000 17-12-2002
EP 1267423 A	18-12-2002	JP 2002374007 A TW 544957 B US 2003006421 A1	26-12-2002 01-08-2003 09-01-2003
EP 1246265 A	02-10-2002	JP 2002299698 A TW 560086 B US 2003008431 A1	11-10-2002 01-11-2003 09-01-2003
US 5283425 A	01-02-1994	DE 4302897 A1 GB 2264002 A JP 5304318 A	12-08-1993 11-08-1993 16-11-1993
US 5660461 A	26-08-1997	CA 2204432 A1 DE 69530221 D1 DE 69530221 T2 EP 0796506 A1 JP 10502772 T WO 9618210 A1	13-06-1996 08-05-2003 19-02-2004 24-09-1997 10-03-1998 13-06-1996